

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.(Previously Presented) A shared medium communication system comprising:

a primary station arranged to receive an access request, process the access request and send a grant in response to the access request;

a secondary station for sending the access request and for receiving the grant; and

a shared medium coupling the primary station with the secondary station, wherein the secondary station is arranged to merge several access requests into a multi request and send the multi request to the primary station, and wherein the primary station is arranged to receive the multi request, process the multi request and send the grant in response to the access requests merged in the multi request, and

wherein the secondary station is arranged to adapt the merging of the access requests in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

Claim 2 (Canceled)

3.(Previously Presented) The shared medium communication system as claimed in claim 1, wherein the secondary station is arranged to adapt the sending of the multi request in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

4.(Previously Presented) A secondary station for sending an access request to a primary station and for receiving a grant from the primary station in response to the access request, the access request comprising a request for access to a shared medium, wherein the secondary station is arranged to merge several access requests into a multi request and send the multi request to the primary station, and wherein the secondary station is arranged to adapt the merging of the access requests in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

Claim 5 (Canceled)

6.(Previously Presented) The secondary station as claimed in claim 4, wherein the secondary station is arranged to adapt the sending of the multi request in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

7.(Previously Presented) A primary station for receiving an access request from a secondary station, for processing the access request and for sending a grant to the secondary station in response to the access request, the access request comprising a request for access to a shared medium, wherein the primary station is arranged to receive a multi request containing several merged access requests, process the multi request and send the grants to the secondary station in response to the access requests in the multi request, and wherein the secondary station is arranged to adapt the merging of the access requests in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

8.(Previously Presented) A method of operating a shared medium communication system, the method comprising the acts of:

a primary station receiving an access request, processing the access request and sending a grant in response to the access request,

a secondary station sending the access request to and receiving the grant from the primary station, the access request comprising a request for access to a shared medium,

the secondary station merging several access requests into a multi request and sending the multi request to the primary station, wherein the merging act is adapted in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received, and

the primary station receiving the multi request, processing the multi request and sending the grants in response to the access requests merged in the multi request.

Claim 9 (Canceled)

10.(Previously Presented) The method as claimed in claim 8, the sending act is adapted in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

11.(Previously Presented) A method of sending an access request to a primary station and receiving a grant from the primary station in response to the access request, the access request comprising a request for access to a shared medium, wherein the method comprises the acts of:

merging several access requests into a multi request; and

sending the multi request to the primary station, wherein the merging act is adapted in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

12.(Previously Presented) A method of receiving an access request from a secondary station, processing the access request and sending a grant to the secondary station in response to the access request, the access request comprising a request for access to a shared medium, wherein the method comprises the acts of:

- receiving a multi request comprising merged access requests,
- processing the multi request; and
- sending the grants to the secondary station in response to the access requests merged in the multi request, wherein a number of requests merged into the multi request is adapted in dependence on histories of access requests previously merged, multi requests previously sent and/or grants previously received.

Claims 13-15 (Canceled)

16.(Currently Amended) The shared medium communication system of claim 1, wherein the traffic load is predicted from the histories of access requests previously merged, multi requests previously sent and/or grants previously received.

Claims 17-20 (Canceled)